

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. An induction air handling unit that in use has a primary air flow to induce a secondary air flow comprising;
 - a primary air supply chamber from which primary air flow is re-directed,
 - an outlet nozzle on said supply chamber that re-directs a jet of primary air away from said supply chamber,
 - a partition dividing a space into a first and second region, said supply chamber positioned in said first region, and
 - an air outlet in said partition having an aperture into which said jet of primary air is directed so that a secondary airflow is caused to flow from within said first region into said second region.
2. An induction air handling unit according to claim 1 further comprising a plurality of nozzles on said supply chamber that result in a plurality of jets of primary air.
3. An induction air handling unit according to claim 2 wherein said plurality of nozzles are arranged in a plurality of rows, and said outlet aperture is an elongate aperture.
4. An induction air handling unit according to claim 3 wherein there are two rows of nozzles.
5. An induction air handling unit according to claim 2 wherein said plurality of nozzles are arranged in a plurality of spaced rows and further comprising a plurality of air outlets adjacent each said row.

6. An induction air handling unit according to claim 5 wherein said outlet apertures are elongate apertures.
7. An induction air handling unit according to claim 2 wherein said air outlet comprises a rectangular or square aperture and wherein said plurality of nozzles are positioned around the periphery of said square or rectangular aperture.
8. An induction air handling unit according to claim 7 wherein said outlet comprises an annulus around the periphery of said square or rectangular aperture that is adjacent said plurality of nozzles.
9. An induction air handling unit according to any one of the preceding claims wherein said supply chamber is attached to said air outlet.
10. An induction air handling unit according to claim 9 wherein said air outlet further comprises walls extending upwardly from said outlet that are positioned around the periphery of said outlet.
11. An induction air handling unit according to claim 10 wherein there is a gap between some or all of said walls and said supply chamber through which said secondary air flows.
12. An induction air handling unit according to any one of the preceding claims wherein said partition comprises a ceiling of a room and wherein first region is a ceiling space and said second region is said room.
13. An induction air handling unit according to claim 12 wherein air flowing from said outlet is directed sideways.

14. An induction air handling unit according to claim 13 wherein the edges of said outlet are curved so that the outlet reduces in width and then increases in width between the entrance and exit of the outlet.
15. An induction air handling unit according to either one of claims 13 or 14 further comprising a guide located centrally within the aperture of said outlet to split the air flow from said outlet.
16. An induction air handling unit according to claim 15 wherein said guide splits the air flow into two streams.
17. An induction air handling unit according to claim 15 wherein said guide splits the air flow into four streams.
18. An induction air handling unit according to any one of claims 1 to 11 wherein said partition comprises the floor of a room and wherein said first region is a space below said floor and said second region is said room.
19. An induction air handling unit according to any one of claims 1 to 11 wherein said partition comprises the wall of a room and wherein said first region is a space behind said wall and said second region is said room.
20. An induction air handling unit substantially as herein described with reference to the accompanying drawings.